

Claims

1. A communication apparatus comprising:
 - a multiplexing transmission unit for multiplexing and transmitting communication data;
 - an operation monitoring control terminal for monitoring said multiplexing transmission unit; and
 - an IP terminal connected with said multiplexing transmission unit by way of a physical interface between said multiplexing transmission unit and said operation monitoring control terminal which said IP terminal shares with said operation monitoring control terminal, said IP terminal converting a signal inputted to said communication apparatus from outside into IP packets, and furnishing them to said multiplexing transmission unit,
2. A communication apparatus comprising:
 - a multiplexing transmission unit for multiplexing and transmitting communication data;
 - an operation monitoring control terminal for monitoring said multiplexing transmission unit; and
 - an IP terminal for converting a signal inputted to said communication apparatus from outside into IP packets, and for furnishing them to said multiplexing transmission unit via said operation monitoring control terminal,

said multiplexing transmission unit multiplexing the IP packets furnished thereto from said IP terminal and said communication data, and then transmitting them.

20 2. A communication apparatus comprising:

a multiplexing transmission unit for multiplexing and transmitting communication data;

an operation monitoring control terminal for monitoring said multiplexing transmission unit; and

25 an IP terminal for converting a signal inputted to said communication apparatus from outside into IP packets, and for furnishing them to said multiplexing transmission unit via said operation monitoring control terminal,

said multiplexing transmission unit multiplexing the IP packets furnished thereto from said IP terminal and said

communication data, and then transmitting them.

3. A communication apparatus comprising:
 - a multiplexing transmission unit for multiplexing and
 - 5 transmitting communication data; and
 - an operation monitoring control terminal for monitoring
 - said multiplexing transmission unit,
 - said operation monitoring control terminal converting a
 - signal inputted to said communication apparatus from outside
 - 10 into IP packets, and furnishing them to said multiplexing
 - transmission unit,
 - said multiplexing transmission unit multiplexing the IP
 - packets furnished thereto from said IP operation monitoring
 - control terminal and said communication data, and then
 - 15 transmitting them.